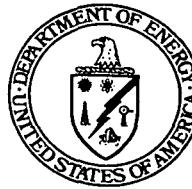




Department of Energy

Ohio Field Office
Fernald Area Office
P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155



3222

AUG 31 2000

Mr. James A. Saric, Remedial Project Manager
U.S. Environmental Protection Agency
Region V, SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0967-00

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Mr. Bill Kurey
U.S. Fish and Wildlife Service, Suite H
6950 American Parkway
Reynoldsburg, Ohio 43068

Dear Mr. Saric, Mr. Schneider, and Mr. Kurey:

TRANSMITTAL OF THE PROPOSED STRATEGY FOR REPLACEMENT PLANTING IN THE AREA 1, PHASE I WETLAND MITIGATION PROJECT

The purpose of this correspondence is to propose a strategy for the replacement planting required in the Area 1, Phase I Wetland Mitigation Project. The Wetland Mitigation Project was initiated in the Spring of 1999 in the northeast corner of the Fernald site. The project was completed in the Fall of 1999, and monitoring efforts began in the Spring of 2000 per the Wetland Mitigation Design. Monitoring activities consisted of the measurement of water levels within each basin, water quality analyses, mortality counts of woody stock, and wildlife observations. Maintenance has also been performed and has consisted of invasive plant species control, erosion control and watering of plants.

The first year of monitoring is near completion and indicates that replacement planting will be required in the Fall of 2000 and the Spring of 2001 to achieve minimum survival requirements of 80 percent. Further, some replacement planting will be required due to a lack of plant stock availability prior to completion of the project. Portions of this

Mr. James A. Saric
Mr. Tom Schneider
Mr. Bill Kurey

-3-

AUG 31 2000

cc w/enclosure:

R. J. Janke, OH/FEMP
W. Pasko, OH/FEMP
D. Pfister, OH/FEMP
P. Yerace, OH/FEMP
G. Jablonowski, USEPA-V, SRF-5J
T. Schneider, OEPA-Dayton (three copies of enclosure)
P. Dunn, FCAB
D. Sarno, FCAB
F. Bell, ATSDR
F. Hodge, Tetra Tech
M. Schupe, HSI GeoTrans
R. Vandegrift, ODH
AR Coordinator, Fluor Fernald, Inc./78

cc w/o enclosure:

N. Hallein, EM-31/CLOV
J. Reising, OH/FEMP
A. Tanner, OH/FEMP
D. Carr, Fluor Fernald, Inc./2
J. Chiou, Fluor Fernald, Inc./52-0
T. Hagen, Fluor Fernald, Inc./65-2
J. Harmon, Fluor Fernald, Inc./90
S. Hinnefeld, Fluor Fernald, Inc./31
M. Jewett, Fluor Fernald, Inc./52-2
C. Straub, Fluor Fernald, Inc./65-2
H. Swiger, Fluor Fernald, Inc./65-2
T. Walsh, Fluor Fernald, Inc./65-2
E. Woods, Fluor Fernald, Inc./65-2
ECDC, Fluor Fernald/52-7

Section 1

| Patch | No. Planted | No. Dead | % Survival | No. Plants to be Installed Fall 2000 |
|---------------|-------------|------------|------------|--------------------------------------|
| UF1 | 9 | 3 | 67% | 5 |
| UF2 | 36 | 26 | 28% | 0 |
| UF3 | 19 | 11 | 42% | 16 |
| UF4 | 14 | 2 | 86% | 5 |
| US1 | 14 | 1 | 93% | 0 |
| US2 | 35 | 17 | 51% | 0 |
| US3 | 116 | 51 | 56% | 0 |
| US4 | 15 | 2 | 87% | 0 |
| US5 | 27 | 11 | 59% | 0 |
| US6 | 10 | 1 | 90% | 0 |
| US7 | 20 | 10 | 50% | 13 |
| US8 | 25 | 11 | 56% | 9 |
| US9 | 14 | 8 | 43% | 0 |
| US10 | 14 | 10 | 29% | 0 |
| US11 | 63 | 26 | 59% | 32 |
| US12 | 44 | 14 | 68% | 0 |
| US13 | 43 | 22 | 49% | 20 |
| US14 | 40 | 22 | 45% | 20 |
| WF1 | 19 | 10 | 47% | 10 |
| WF2 | 17 | 7 | 59% | 4 |
| WF3 | 25 | 15 | 40% | 20 |
| WF4 | 32 | 10 | 69% | 8 |
| WF5 | 27 | 10 | 63% | 10 |
| WS1 | 24 | 8 | 67% | 8 |
| WS2 | 21 | 3 | 86% | 16 |
| WS3 | 27 | 0 | 100% | 0 |
| WS4 | 26 | 15 | 42% | 12 |
| WS5 | 54 | 1 | 98% | 0 |
| WS6 | 27 | 0 | 100% | 0 |
| WS7 | 25 | 18 | 28% | 16 |
| Totals | 882 | 345 | 61% | 224 |

Section 2

| Patch | No. Planted | No. Dead | % Survival | No. Plants to be Installed Fall 2000 |
|---------------|-------------|------------|------------|--------------------------------------|
| UF5 | 27 | 11 | 59% | 5 |
| UF6 | 26 | 4 | 85% | 0 |
| UF7 | 56 | 15 | 73% | 3 |
| UF8 | 39 | 11 | 72% | 0 |
| UF9 | 79 | 23 | 71% | 0 |
| US15 | 16 | 3 | 81% | 0 |
| US16 | 26 | 2 | 92% | 0 |
| US17 | 63 | 19 | 70% | 12 |
| US18 | 59 | 15 | 75% | 25 |
| US19 | 21 | 2 | 90% | 0 |
| US20 | 65 | 11 | 83% | 0 |
| US21 | 52 | 13 | 75% | 0 |
| US22 | 53 | 6 | 89% | 0 |
| US23 | 37 | 6 | 84% | 0 |
| US24 | 23 | 4 | 83% | 0 |
| WF6 | 23 | 6 | 74% | 0 |
| WF7 | 35 | 9 | 74% | 7 |
| WF8 | 31 | 3 | 90% | 0 |
| WF9 | 39 | 11 | 72% | 5 |
| WS8 | 14 | 0 | 100% | 0 |
| WS9 | 162 | 44 | 73% | 20 |
| WS10 | 54 | 19 | 65% | 11 |
| WS11 | 14 | 0 | 100% | 0 |
| WS12 | 27 | 0 | 100% | 0 |
| WS13 | 35 | 18 | 49% | 18 |
| WS14 | 39 | 20 | 49% | 16 |
| WS15 | 27 | 2 | 93% | 0 |
| WS16 | 41 | 0 | 100% | 0 |
| WS17 | 147 | 47 | 68% | 27 |
| Totals | 1330 | 324 | 76% | 149 |

3222

Section 3

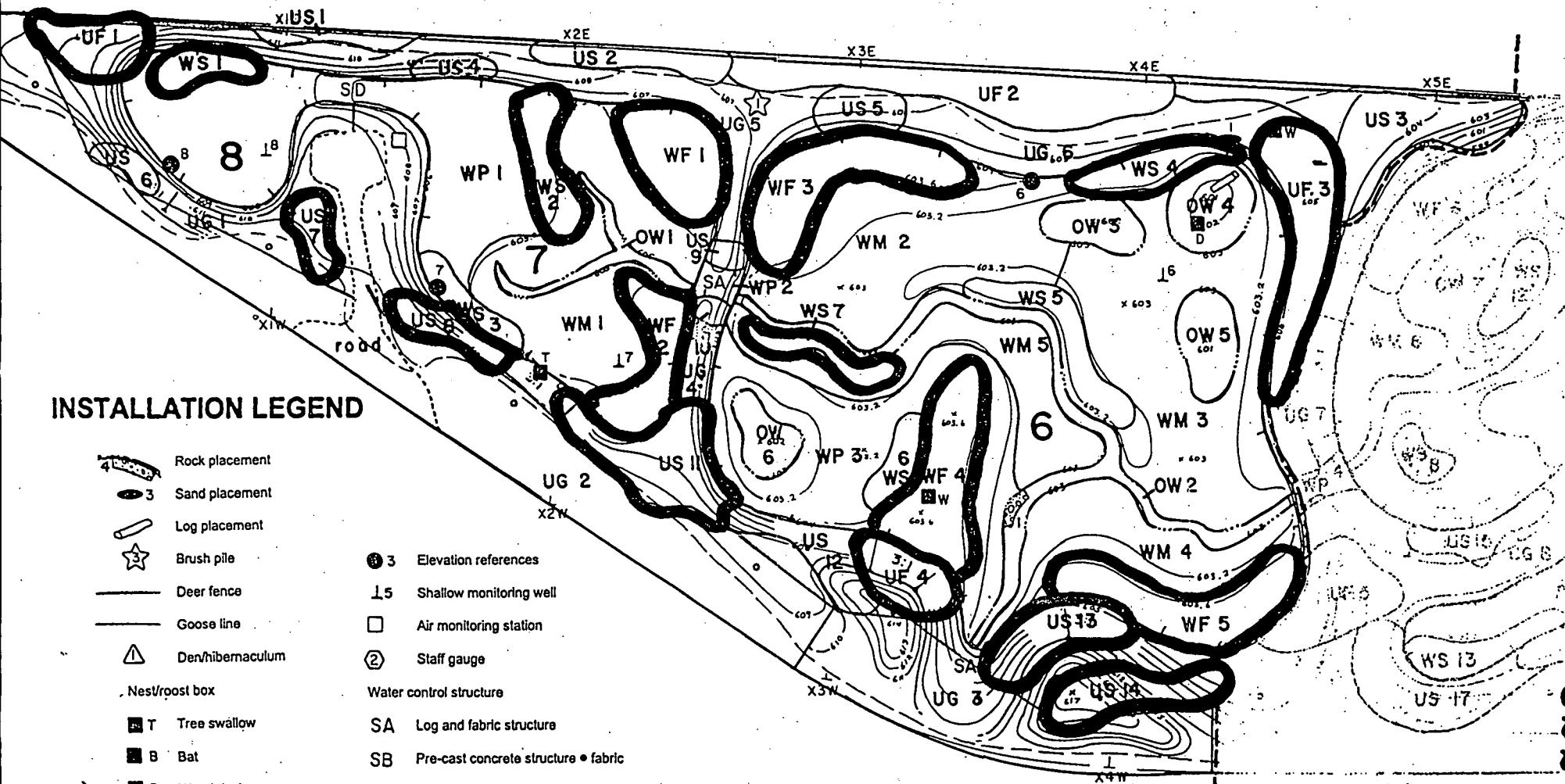
| Patch | No. Planted | No. Dead | % Survival | No. Plants to be Installed Fall 2000 |
|---------------------|-------------|------------|------------|--------------------------------------|
| UF10 | 17 | 14 | 18% | 8 |
| UF11 | 57 | 28 | 51% | 23 |
| UF12 | 68 | 29 | 57% | 0 |
| UF13 | 49 | 18 | 63% | 0 |
| UF14 | 54 | 39 | 28% | 29 |
| UF15 | 26 | 6 | 77% | 0 |
| UF16 | 6 | 3 | 50% | 5 |
| | | | | |
| US25 | 51 | 17 | 67% | 12 |
| US26 | 34 | 11 | 68% | 12 |
| US27 | 51 | 16 | 69% | 11 |
| US28 | 80 | 29 | 64% | 41 |
| US29 | 21 | 2 | 90% | 0 |
| US30 | 46 | 22 | 52% | 22 |
| US31 | 27 | 11 | 59% | 30 |
| | | | | |
| WF10 | 29 | 6 | 79% | 36 |
| | | | | |
| WS18 | 38 | 9 | 76% | 10 |
| WS19 | 75 | 24 | 68% | 51 |
| WS20 | 33 | 3 | 91% | 0 |
| WS21 | 27 | 0 | 100% | 0 |
| WS22 | 14 | 0 | 100% | 0 |
| WS23 | 67 | 12 | 82% | 0 |
| WS24 | 55 | 6 | 89% | 0 |
| WS25 | 30 | 2 | 93% | 0 |
| WS26 | 27 | 0 | 100% | 0 |
| WS27 | 44 | 13 | 70% | 15 |
| | | | | |
| Totals | 1026 | 320 | 69% | 305 |
| | | | | |
| Gd. Totals | 3238 | 989 | 69% | 678 |
| (Denotes average %) | | | | |

SECTION 1

0 50ft.
SCALE

NORTH

- DENOTES FALL 2000 PLANTING



INSTALLATION LEGEND

- 4 Rock placement
- 3 Sand placement
- 1 Log placement
- ★ Brush pile
- Deer fence
- Goose line
- ⚠ Den/hibernaculum
- △ Nest/roost box
- T Tree swallow
- B Bat
- D Wood duck
- K Kestrel
- W Wren

- ③ Elevation references
- ⑤ Shallow monitoring well
- Air monitoring station
- ② Staff gauge
- Water control structure
- SA Log and fabric structure
- SB Pre-cast concrete structure • fabric
- SC Pole drain + fabric
- SD Fabric only

— DENOTES FALL 2000 PLANTING

INSTALLATION LEGEND



NORTH

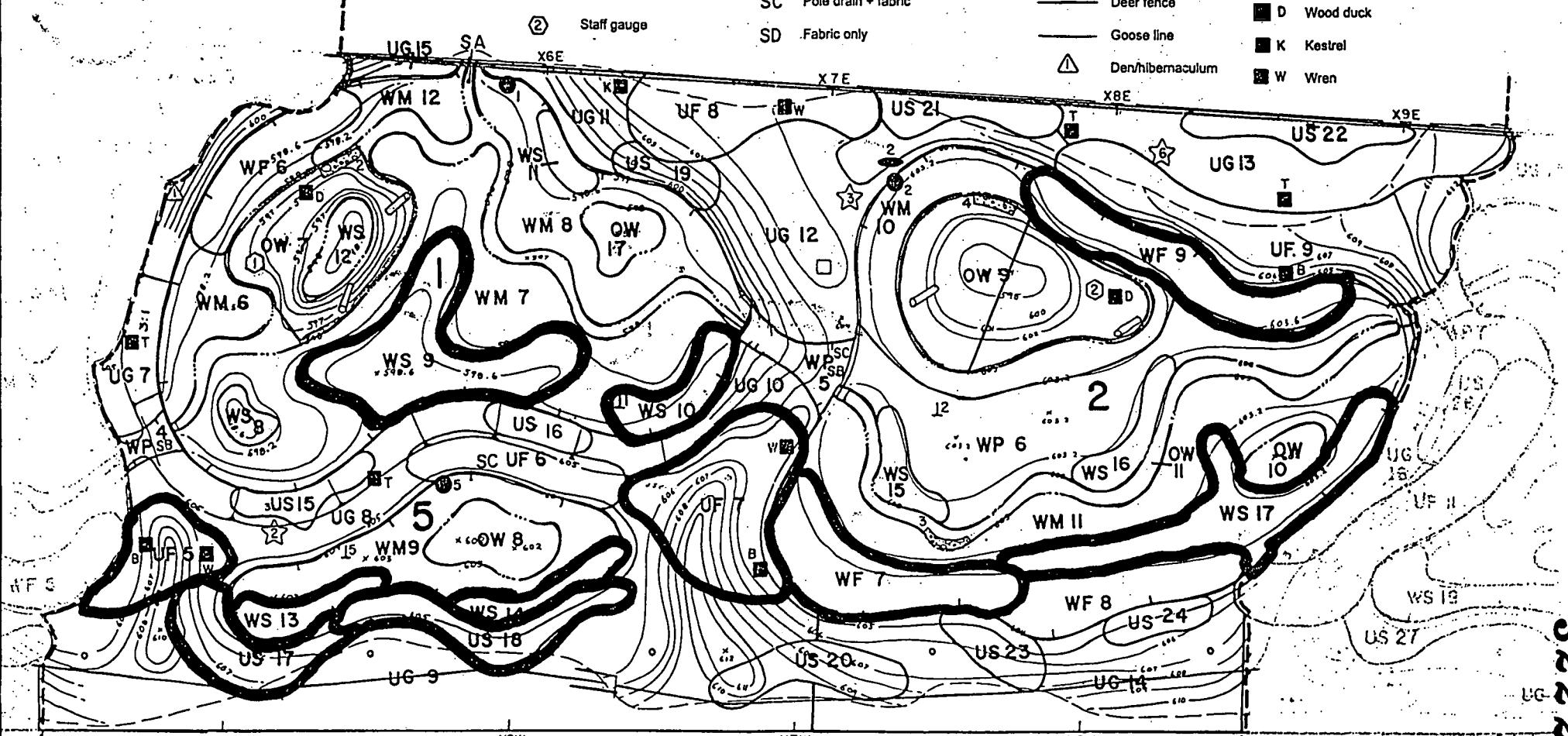
- ③ Elevation references
- 15 Shallow monitoring well
- Air monitoring station
- ② Staff gauge

- Water control structure
 - SA Log and fabric structure
 - SB Pre-cast concrete structure + fabric
 - SC Pole drain + fabric
 - SD Fabric only

- Rock placement
- 3 Sand placement
- Log placement
- Brush pile
- Deer fence
- Goose line
- Den/hibernaculum

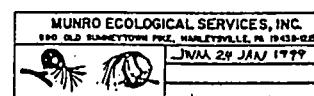
- Nest/roost box
 - T Tree swallow
 - B Bat
 - D Wood duck
 - K Kestrel
 - W Wren

SECTION 2



SECTION 2

SECTION 2 SECTION 3



— DENOTES FALL 2000 PLANTING

SECTION 3



NORTH

INSTALLATION LEGEND

- 3 Elevation references
- ↓ 5 Shallow monitoring well
- Air monitoring station
- ② Staff gauge
- Water control structure
- SA Log and fabric structure
- SB Pre-cast concrete structure + fabric
- SC Pole drain + fabric
- SD Fabric only

4 Rock placement

3 Sand placement

Log placement

Brush pile

Deer fence

Goose line

Den/hibernaculum

Nest/roost box

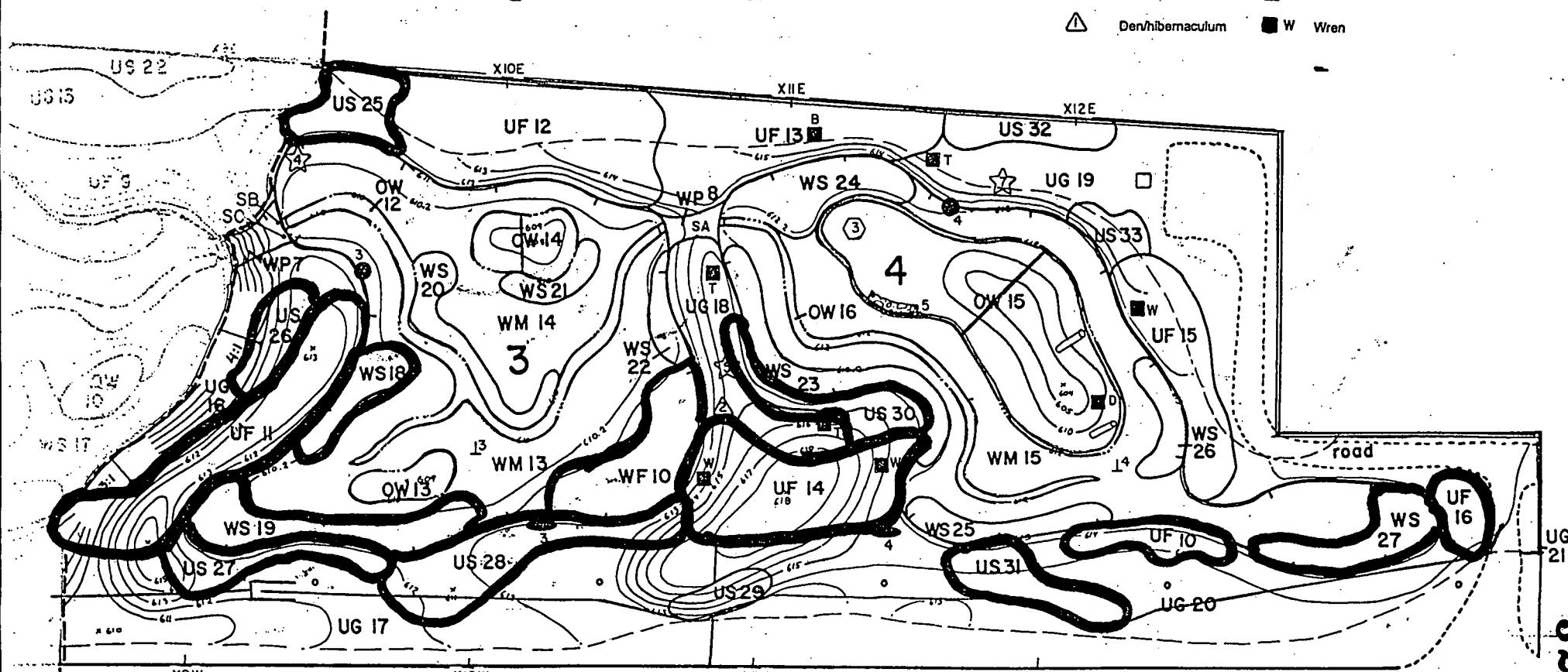
T Tree swallow

B Bat

D Wood duck

K Kestrel

W Wren



SECTION 3